

IN THE CLAIMS

1. (Currently amended) A method for deforming a workpiece, ~~such as a metal cylinder or plate, by means of a~~ tool having one or more forming rollers, the method comprising:

5 rotating the workpiece and/or the tool about an axis relative to each other;
moving the tool relative to the workpiece through one or more deforming curves wherein at least part of the workpiece is deformed;
10 measuring values of one or more coordinates of a position of an extreme edge of the workpiece during the deforming process; and
changing a position and/or a shape of one or more of the deforming curves being passed through
15 during the deforming process, a feeding rate and/or a rotational speed with which the tool and the workpiece are rotated relative to each other on the basis of said measurement or measurements, with the proviso that, if the
20 shape of one or more of the deforming curves is changed, no locally reduced portions will be imposed on the deformed portion.

2. (Cancelled)

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3. (Previously presented) The method according to claim 1, wherein measuring values includes measuring said values in a contactless manner.

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4. (Previously presented) The method according to claim 1, wherein measuring values includes measuring the values of one or more coordinates of the position of the extreme edge of the workpiece at least at the end of each
35 pass.

5. (Previously presented) The method according to claim 1, wherein at least the extreme edge of the workpiece is deformed on a forming tool.

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6. (Previously presented) A forming machine for deforming a workpiece, comprising:

a forming tool,

one or more drives configured to move said tool,

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a control unit comprising a memory, wherein the control unit is arranged for controlling the tool during the deforming process at least on the basis of deforming curves, the feed rate and/or the rotational speed with which the workpiece and the tool are rotated relative to each other, which parameters are stored in the memory,

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at least one detector configured to measure values of one or more coordinates of a position of an extreme edge of the workpiece and provide said measured values to the control unit, and

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wherein the control unit is arranged for changing the position and/or the shape of one or more of the deforming curves being passed through during the deforming process, the feeding rate and/or the rotational speed with which the tool and the workpiece are rotated relative to each other on the basis of the measurement or measurements obtained by said at least one detector, with the proviso that, if the shape of one or more of the deforming curves is changed, no locally reduced portions will be imposed on the deformed portion.

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7. (Cancelled)

8. (Previously presented) The forming machine according to claim 6, wherein said at least one detector comprises a series of sensors.

5 9. (Previously presented) The forming machine according to claim 6 wherein said forming tool, is a mandrel configured such that, at least the extreme edge of the workpiece is deformed.

10 10. (Previously presented) The forming machine according to claim 9, wherein the forming tool is provided with a stop configured to determine a length of at least a portion of the workpiece.

15 11. (Previously presented) The method according to claim 4 wherein changing one or more parameters of the deforming process includes continuously adjusting at least one of the parameters of the deforming process continuously on the basis of the measured values.